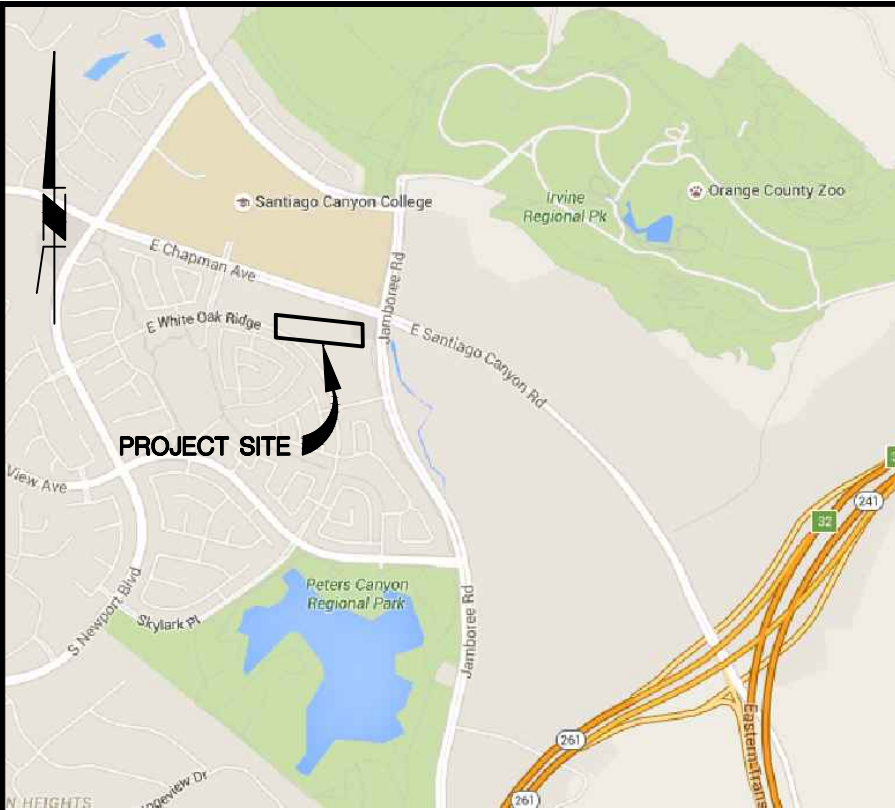




VICINITY MAP
N.T.S



INDEX MAP
N.T.S

DRAINAGE IMPROVEMENT PLAN FOR SANTIAGO CANYON COLLEGE (SOUTHEAST CORNER)

PRIVATE ENGINEER'S NOTICE TO CONTRACTOR

THE CONTRACTOR IS REQUIRED TO TAKE ALL DUE PRECAUTIONARY MEANS TO PROTECT ALL UTILITIES AND EXISTING STRUCTURES.

CONTRACTOR SHALL PROTECT ALL AREAS OF CONSTRUCTION TO ENSURE WATER QUALITY IS NOT COMPROMISED. PROTECTION SHALL INCLUDE AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROL MEASURES, AS NECESSARY, TO ENSURE PROJECT SITE DOES NOT POSE ADDITIONAL SEDIMENT RISK THAN PRIOR TO CONSTRUCTION (I.E. COVER STOCKPILES, PRESERVATION OF EXISTING VEGETATION, POST CONTROL, CLEANING OF IMPERVIOUS SURFACES AT END OF EACH DAY, ETC.)

~~REPLACEMENT OF DAMAGED AND/OR RELOCATION OF IRRIGATION LINES DUE TO CONSTRUCTION SHALL BE PERFORMED BY THE CONTRACTOR, AT THE EXPENSE OF THE CONTRACTOR.~~

CONTRACTOR SHALL CONFIRM THE ACCURACY OF THE QUANTITIES AS SHOWN ON THIS PLAN AS PART OF HIS BID.

CONTRACTOR TO NOTIFY THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION. A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE ENGINEER.

ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 p.s.i. CONCRETE SHALL BE PNEUMATICALLY PLACED AND SHALL CONFORM TO SECTION 303-2 OF THE STANDARD SPECIFICATIONS (GREENBOOK).

SHEET INDEX

TITLE SHEET.....	1
SITE MAP – AREA A.....	2
SITE MAP – AREA B.....	3
DETAILS – AREA A.....	4
DETAILS – AREA A.....	5
DETAILS – AREA B.....	6

LEGEND

FL	FLOWLINE
FS	FINISH SURFACE
TG	TOP OF GRATE
	PROPOSED CONCRETE
	PVC PIPE
	GRADE BREAK
	DIRECTION OF FLOW

KEY NOTE

PROTECT IN PLACE

CONSTRUCTION NOTES AND QUANTITIES

- 1— CONSTRUCT 4" PVC DRAIN PIPE (SDR-35, ASTM D3034) PER DETAIL ON SHEET 4..... 14 L.F.
- 2— CONSTRUCT 8" PVC DRAIN PIPE (SDR-35, ASTM D3034) PER DETAIL ON SHEET 4..... 233 L.F.
- 3— CONSTRUCT 4" ATRIUM GRATE INLET (NDS PART NO 75 OR SIMILAR) INSTALL PER DETAIL ON SHEET 4 AND PER MANUFACTURER'S RECOMMENDATION..... 4 EA.
- 4— CONSTRUCT JENSON PRECAST DROP INLET (12"x12" I.D. OR APPROVED EQUAL) INSTALL PER MANUFACTURER'S RECOMMENDATIONS 1 EA.
- 5— CONSTRUCT JENSEN PRECAST DROP INLET (18" X 18" I.D. OR APPROVED EQUAL) INSTALL PER MANUFACTURER'S RECOMMENDATIONS..... 2 EA.
- 6— CONSTRUCT PARKWAY CULVERT PER DETAILS ON SHEET 5..... 1 EA.
- 7— CONSTRUCT CLEANOUT PER DETAIL ON SHEET 4..... 2 EA.
- 8— CONSTRUCT 6" CONCRETE CURB AND GUTTER PER DETAIL ON SHEET..... 150 L.F.
- 9— CONSTRUCT EARTHEN BERM PER DETAIL ON SHEET 6..... 170 L.F. OR 38 C.Y.

- 10— REMOVE EXCESS SOIL AND RECONTOUR SLOPE PER SECTION A-A ON SHEET 4..... 4 EA.
- 11— INSTALL BIODEGRADABLE EROSION CONTROL BLANKET ON FACE OF RECONTOURED SLOPE PER MANUFACTURER'S RECOMMENDATIONS..... 1,720 S.F.
- 12— REMOVE AND DISPOSE ALL GRAVEL BAGS..... 1 L.S.
- 13— INSTALL NDS 5 INCH PRO SERIES CHANNEL DRAINS (DEEP PROFILE). GRATE TO BE DUCTILE STEEL (PART NO 823). INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS..... 2 EA. OR 26 L.F.

POINTS OF CONTACT

PROJECT MANAGER
JOE M. MELENDEZ
FACILITIES PLANNING & PROGRAM
SERVICES, INC.
RANCHO SANTIAGO COMMUNITY COLLEGE
DISTRICT
2323 NORTH BROADWAY, SUITE 112
SANTA ANA, CA 92706-1640
(310) 909-9402

CIVIL ENGINEER
TODD PITNER, PE
MICHAEL BAKER INTERNATIONAL
14725 ALTON PARKWAY
IRVINE, CA 92618-2027
(949) 933-2552

AMEND.	DATE	DESCRIPTION
	5/16/16	REVISIONS FROM PRE-BID WALK ON MAY 13, 2016



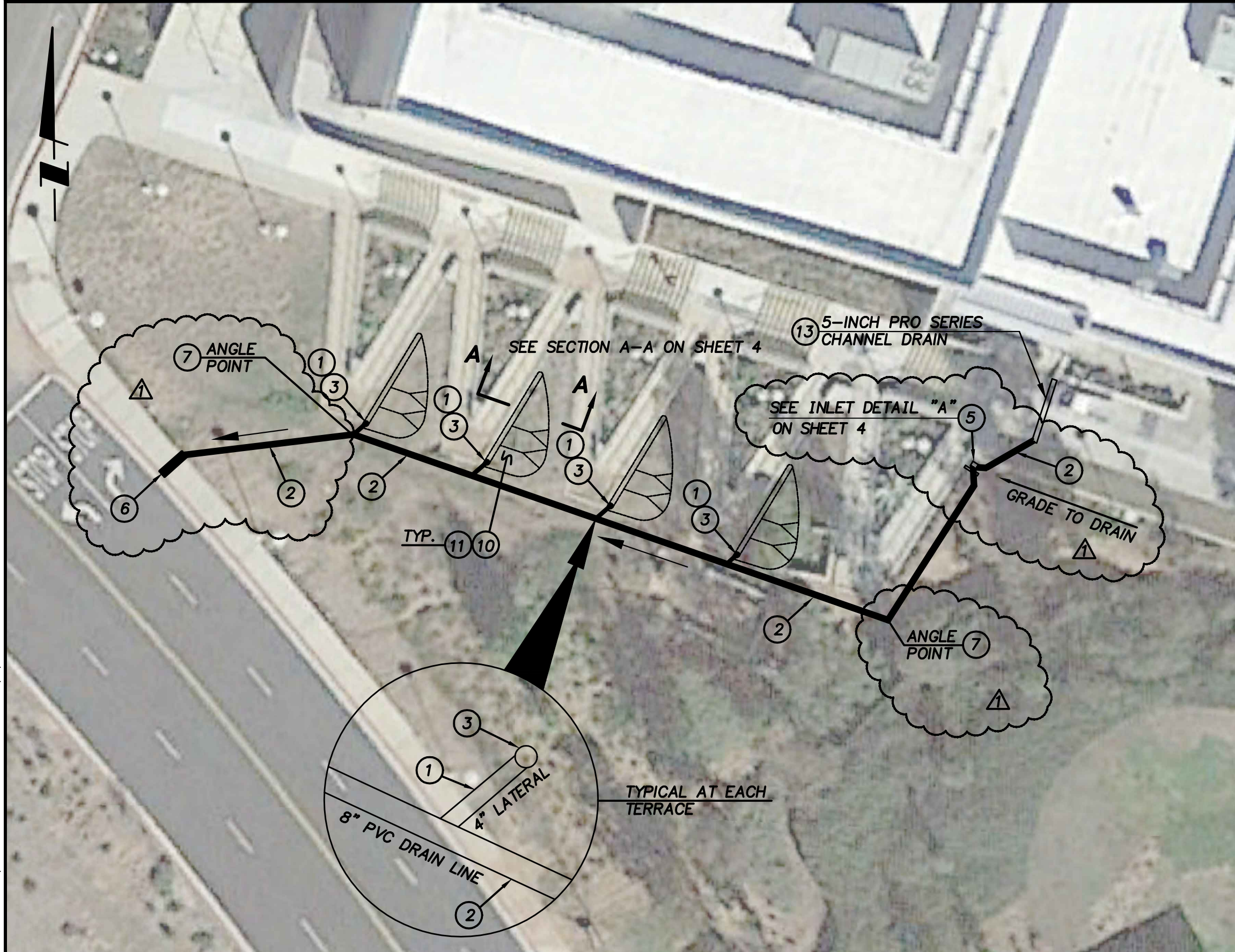
Michael Baker
INTERNATIONAL

3536 CONCOURS ST.,
SUITE 100
ONTARIO, CA 91764
PHONE: (909) 974-4900
MBAKERINTL.COM



TITLE SHEET
DRAINAGE IMPROVEMENT PLAN
FOR
SANTIAGO CANYON COLLEGE

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CONSTRUCTION NOTES

- ① — CONSTRUCT 4" PVC DRAIN PIPE (SDR-35, ASTM D3034) PER DETAIL ON SHEET 4
- ② — CONSTRUCT 8" PVC DRAIN PIPE (SDR-35, ASTM D3034) PER DETAIL ON SHEET 4
- ③ — CONSTRUCT 4" ATRIUM GRATE INLET (NDS PART NO 75 OR SIMILAR) INSTALL PER DETAIL ON SHEET 4 AND PER MANUFACTURER'S RECOMMENDATIONS
- ④ — CONSTRUCT JENSON PRECAST DROP INLET (12"X12" I.D. OR APPROVED EQUAL) INSTALL PER MANUFACTURER'S RECOMMENDATIONS
- ⑤ — CONSTRUCT JENSON PRECAST DROP INLET (18"X18" I.D. OR APPROVED EQUAL) INSTALL PER MANUFACTURER'S RECOMMENDATIONS
- ⑥ — CONSTRUCT PARKWAY CULVERT PER DETAILS ON SHEET 5
- ⑦ — CONSTRUCT CLEANOUT PER DETAIL ON SHEET 4
- ⑩ — REMOVE EXCESS SOIL AND RECONTOUR SLOPE PER SECTION A-A ON SHEET 4
- ⑪ — INSTALL BIODEGRADABLE EROSION CONTROL BLANKET ON FACE OF RECONTOURED SLOPE PER MANUFACTURER'S RECOMMENDATIONS
- ⑬ — INSTALL NDS 5 INCH PRO SERIES CHANNEL DRAINS (DEEP PROFILE). GRATE TO BE DUCTILE STEEL (PART NO 823). INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

NOTES:
TOPSOIL (TOP 2-4 INCHES) TO BE SALVAGED AND PLACED ON FACE OF RECONTOURED SLOPE.
EROSION CONTROL BLANKET TO BE PLACED OVER TOPSOIL.
THE REPLACEMENT OF SLOPE VEGETATION SHALL MATCH THE SPECIES REMOVED.

SCALE: 1" = 20 FEET

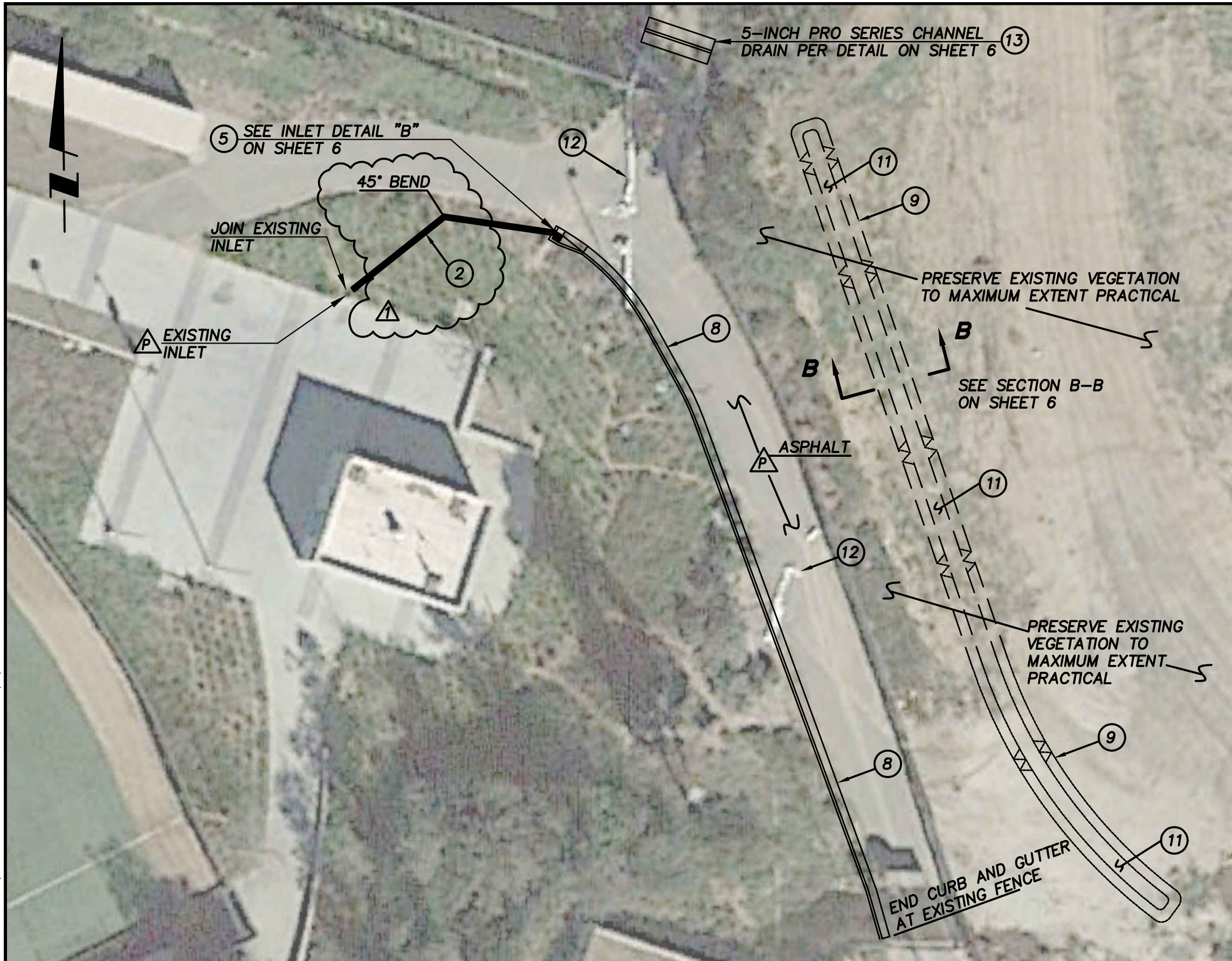


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SITE MAP - AREA A
DRAINAGE IMPROVEMENT PLAN
FOR
SANTIAGO CANYON COLLEGE

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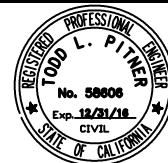


CONSTRUCTION NOTES

- ②— CONSTRUCT 8" PVC DRAIN PIPE (SDR-35, ASTM D3034) PER DETAIL ON SHEET 4
- ⑤— CONSTRUCT JENSON PRECAST DROP INLET (18"x18" I.D. OR APPROVED EQUAL) INSTALL PER MANUFACTURER'S RECOMMENDATIONS
- ⑧— CONSTRUCT 6" CONCRETE CURB AND GUTTER PER DETAIL ON SHEET 6
- ⑨— CONSTRUCT EARTHEN BERM PER DETAIL ON SHEET 6
- ⑪— INSTALL BIODEGRADABLE EROSION CONTROL BLANKET ON FACE OF RECONTOURED SLOPE PER MANUFACTURER'S RECOMMENDATIONS
- ⑫— REMOVE AND DISPOSE ALL GRAVEL BAGS
- ⑬— INSTALL NDS 5 INCH PRO SERIES CHANNEL DRAINS (DEEP PROFILE). GRATE TO BE DUCTILE STEEL (PART NO 823). INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

NOTES:
TOPSOIL (TOP 2-4 INCHES) TO BE SALVAGED AND PLACED ON FACE OF RECONTOURED SLOPE.
EROSION CONTROL BLANKET TO BE PLACED OVER TOPSOIL.
THE REPLACEMENT OF SLOPE VEGETATION SHALL MATCH THE SPECIES REMOVED.

SCALE: 1" = 20 FEET



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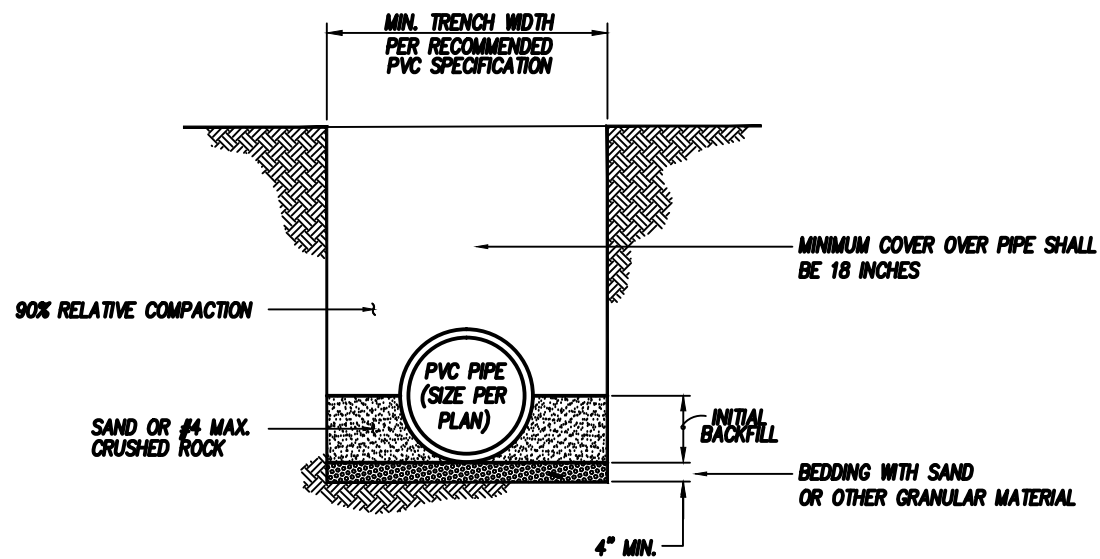
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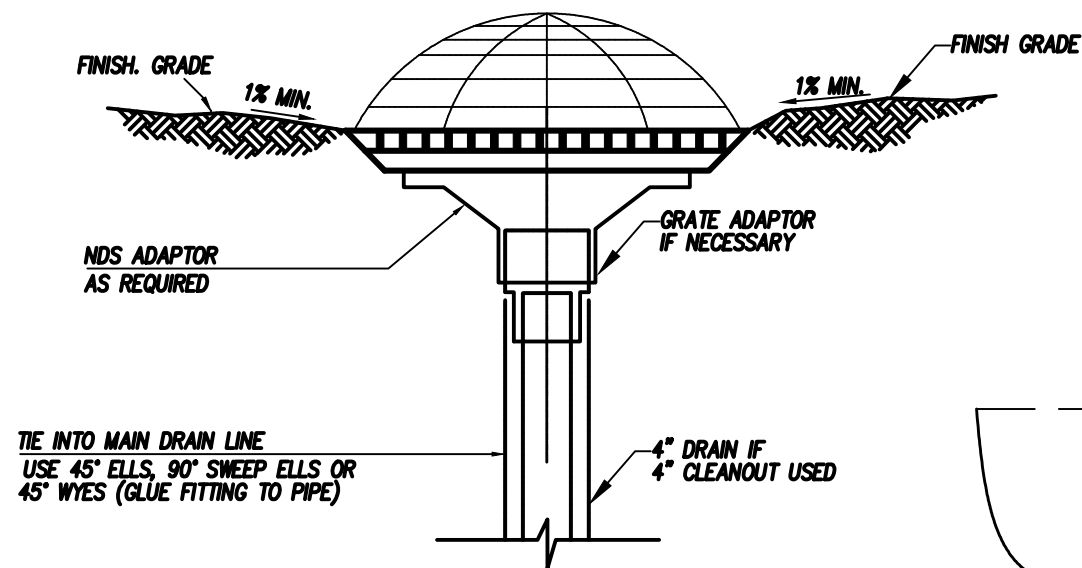
SITE MAP - AREA B
DRAINAGE IMPROVEMENT PLAN
FOR
SANTIAGO CANYON COLLEGE

SHEET
3
OF
6

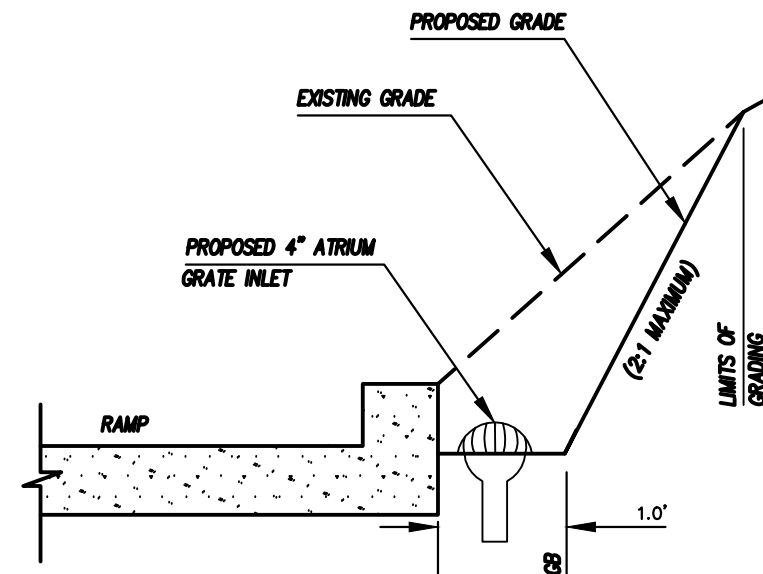
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TYPICAL PVC PIPE TRENCH DETAIL



ATRIUM GRATE INLET/CLEAN OUT

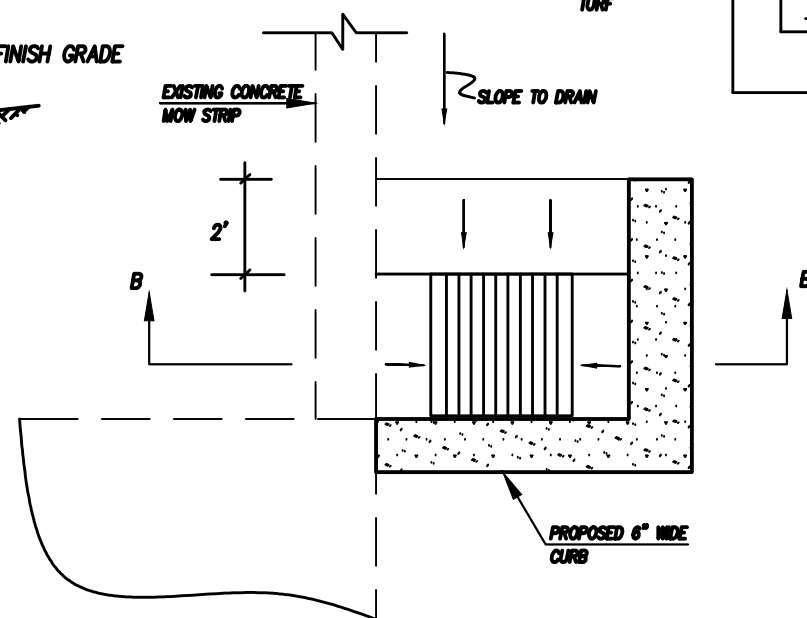
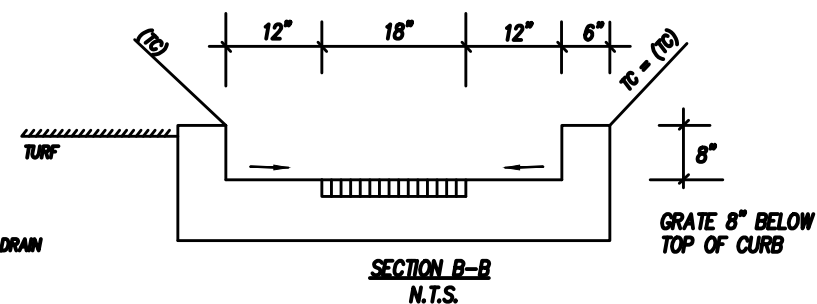


SECTION A-A
(TYPICAL AT EACH TERRACE)

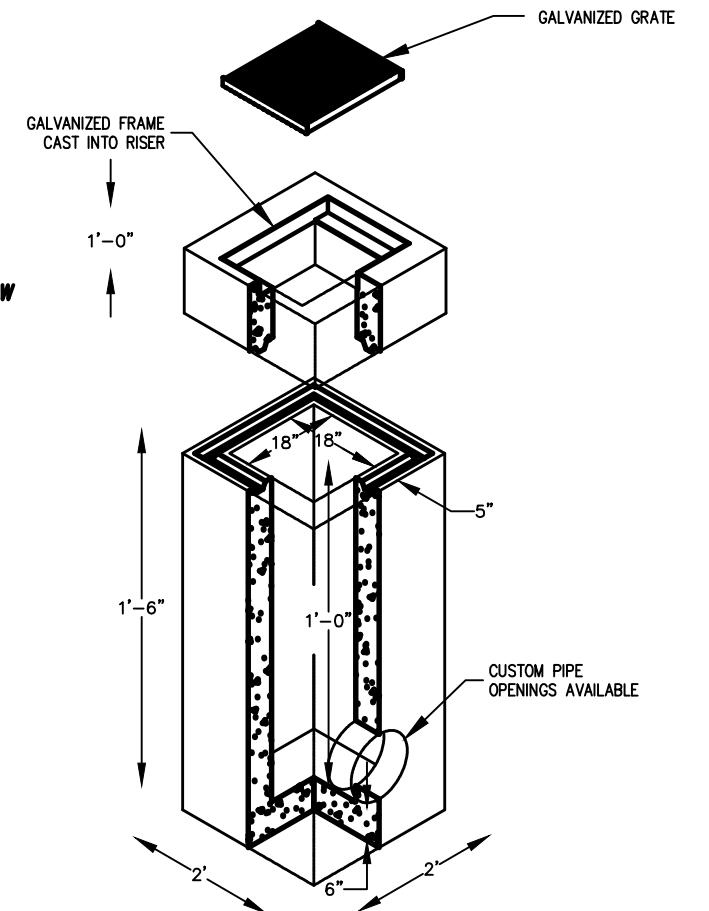
NOTES:

1. PROPOSED GRADE TO BE 4" BELOW TOP OF EXISTING CURB

2. AREA OF DISTURBANCE TO BE STABILIZED



INLET DETAIL 'A'



JENSEN PRECAST DROP INLET (18' X 18')



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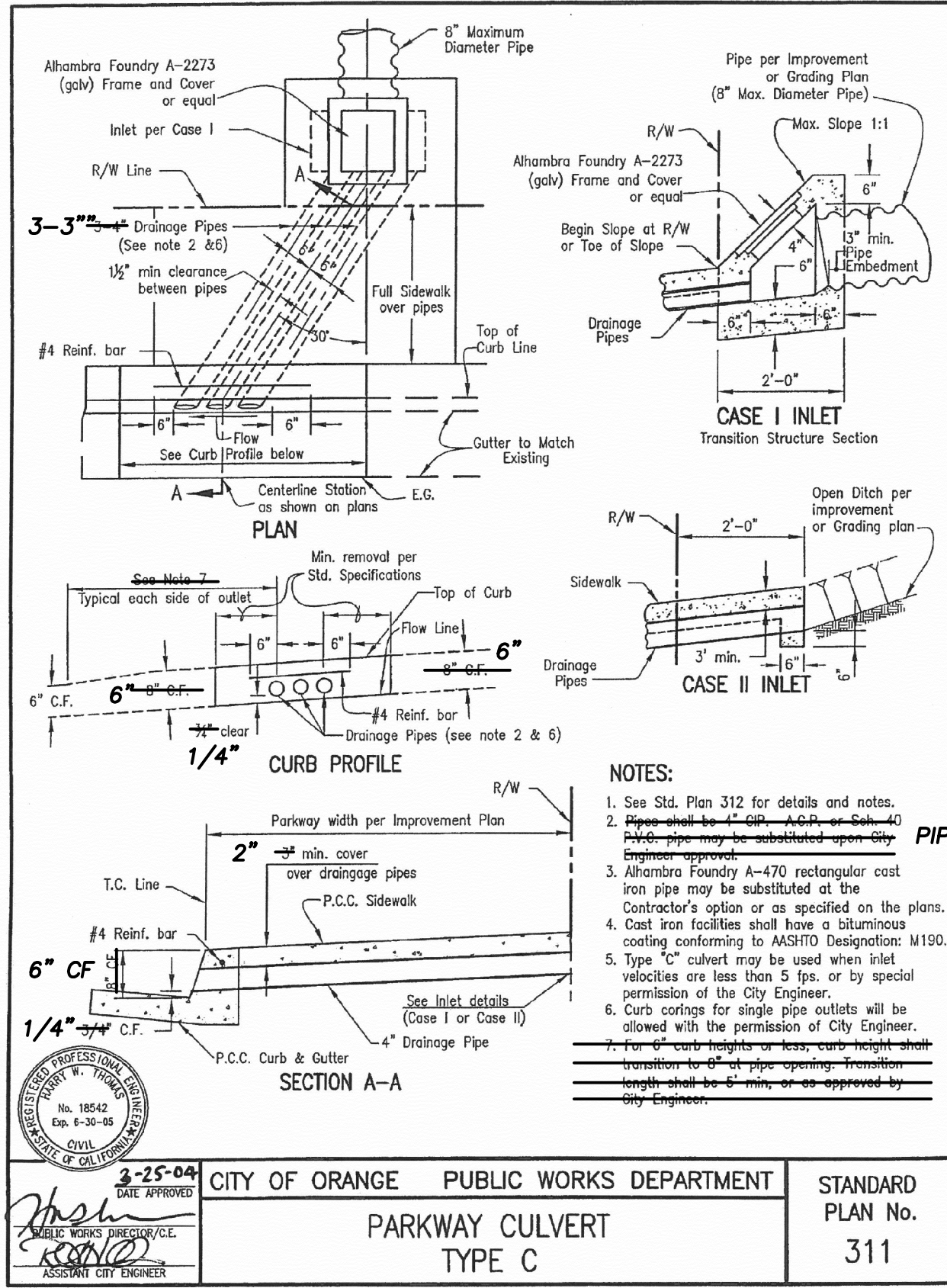
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DETAILS - AREA A
DRAINAGE IMPROVEMENT PLAN
FOR
SANTIAGO CANYON COLLEGE

SHEET
4
OF
6

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PARKWAY CULVERT

⚠ PARKWAY DRAIN REVISED - CURF FACE TO BE 6 INCHES TO MATCH EXISTING / DRAIN LINES TO BE 3" CIP



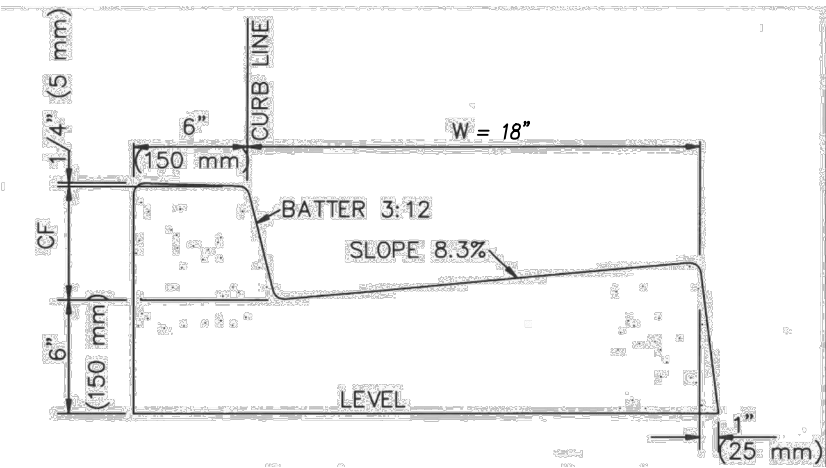
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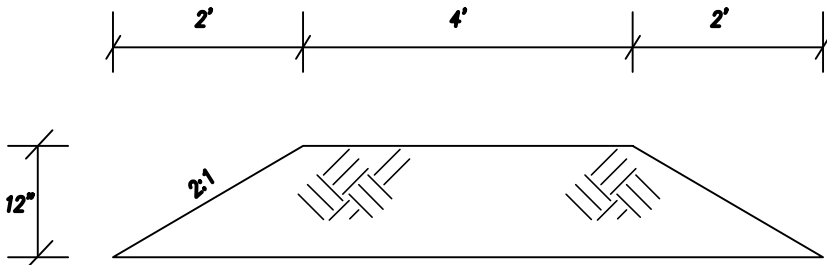
**DETAILS - AREA A
DRAINAGE IMPROVEMENT PLAN
FOR
SANTIAGO CANYON COLLEGE**



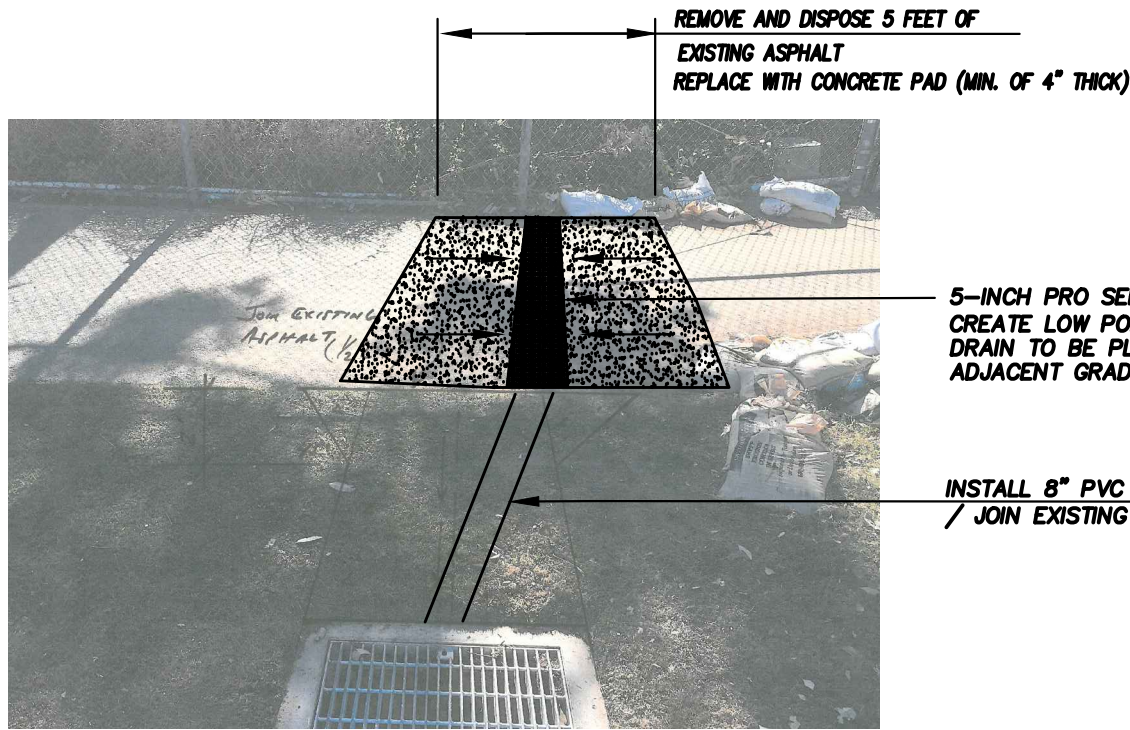
**INLET ON SOCCER FIELD
(FLOODING OBSERVED)**



6" CONCRETE CURB AND GUTTER

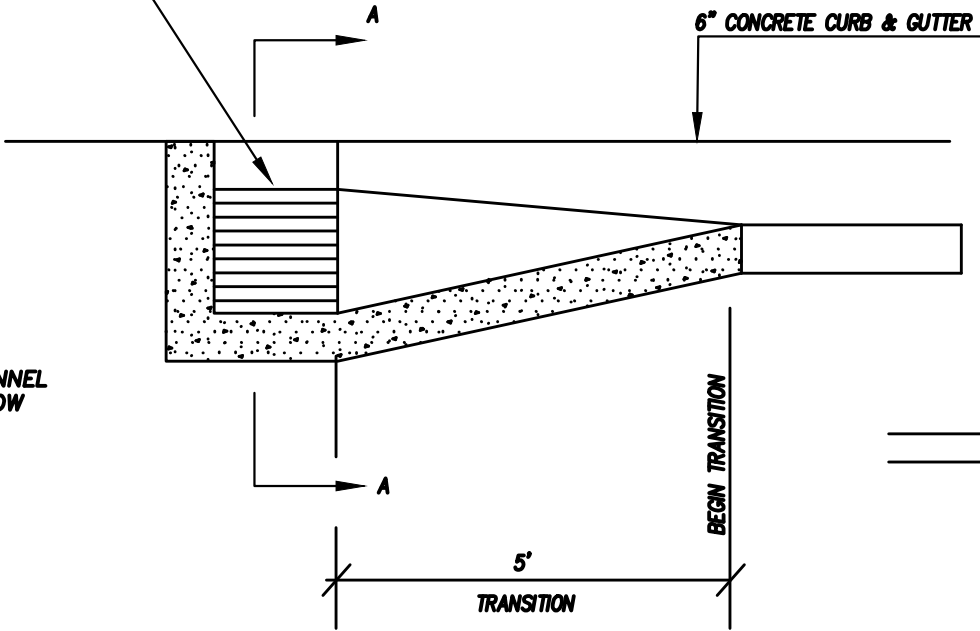


**SECTION B-B
(EARTHEN BERM)**

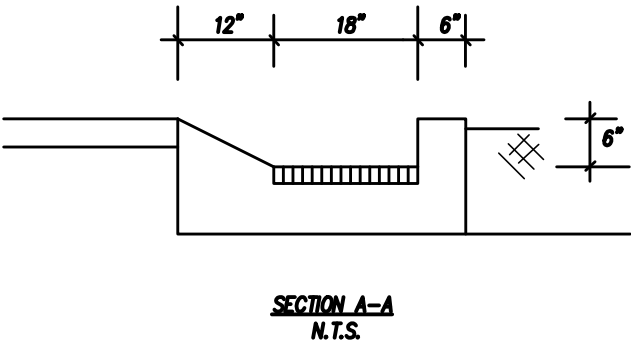


**5-INCH PRO SERIES CHANNEL DRAIN
(ELIMINATE FLOODING)**

JENSON PRECAST DROP INLET
SEE DETAIL SHEET 4



INLET DETAIL 'B'



**SECTION A-A
N.T.S.**



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DETAILS - AREA B
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FOR
SANTIAGO CANYON COLLEGE

SHEET
6
OF
6